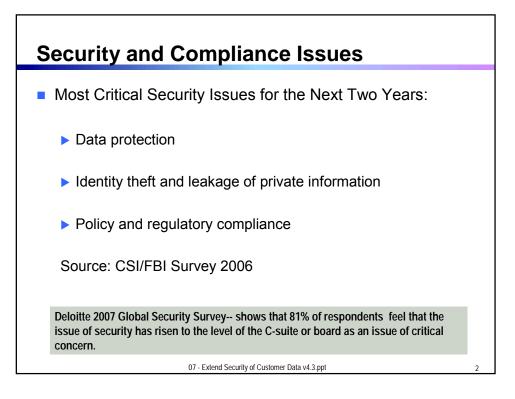
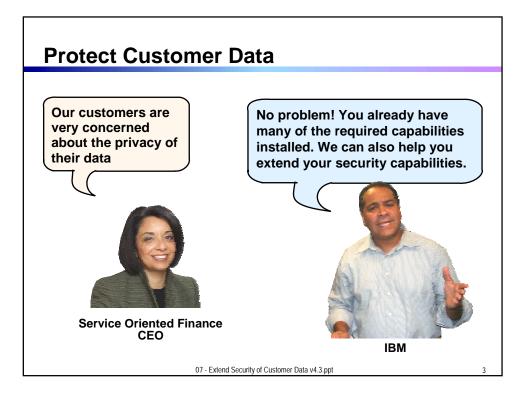
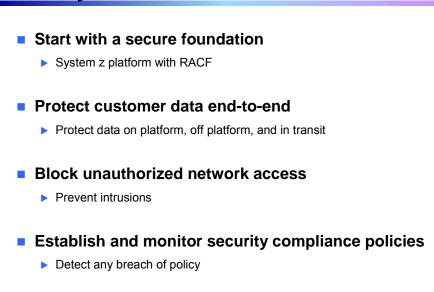
Extending Your Mainframe for More Business Value Extend Data Security on the Mainframe

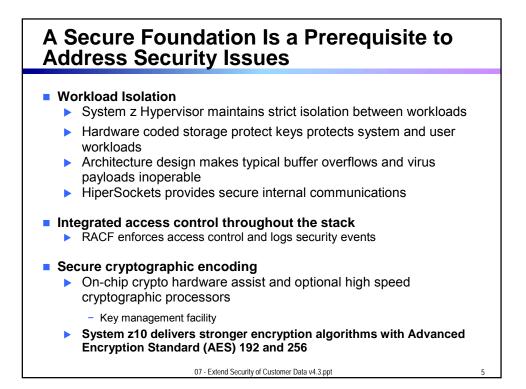




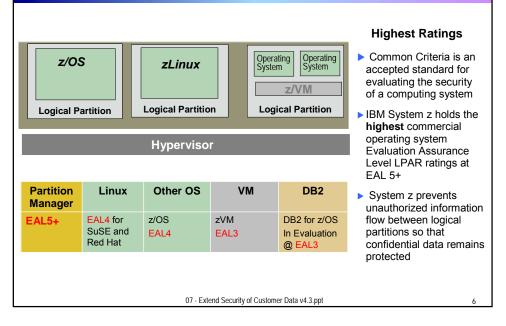
Mainframe Extension Solution – Data Security

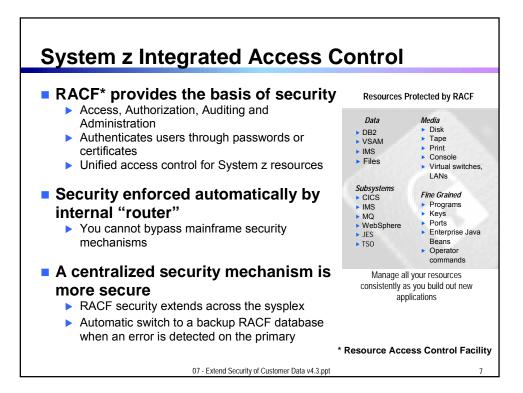


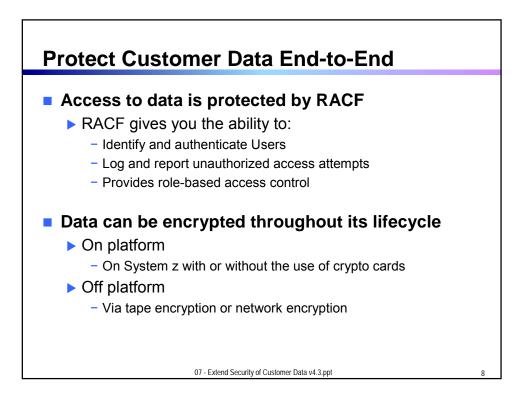
07 - Extend Security of Customer Data v4.3.ppt

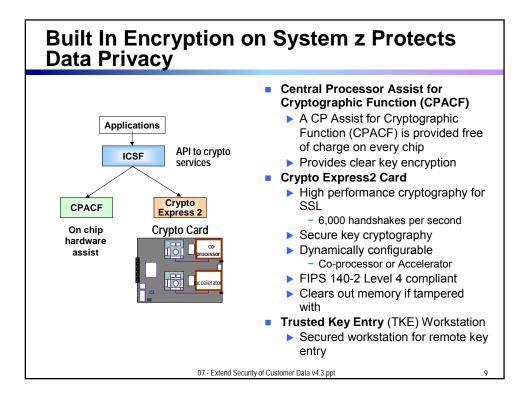


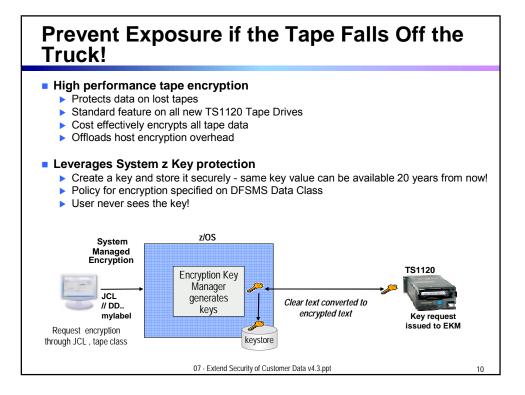
A Secure Foundation Requires The Highest Common Criteria Rating for Security

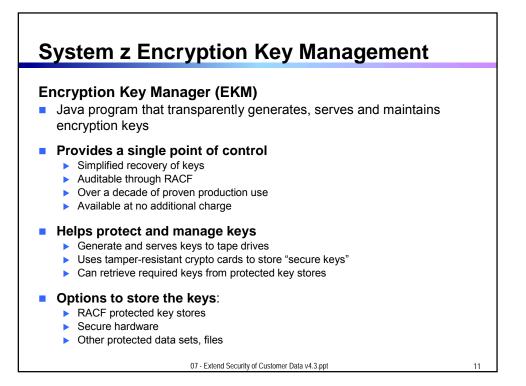


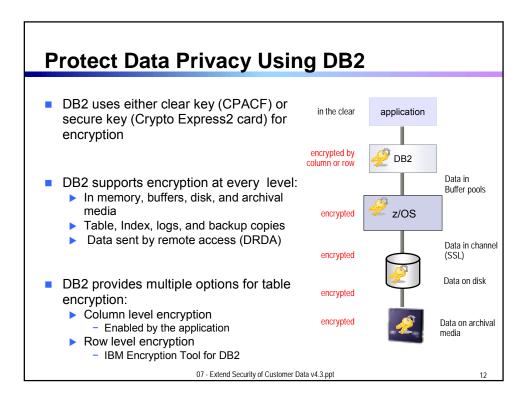


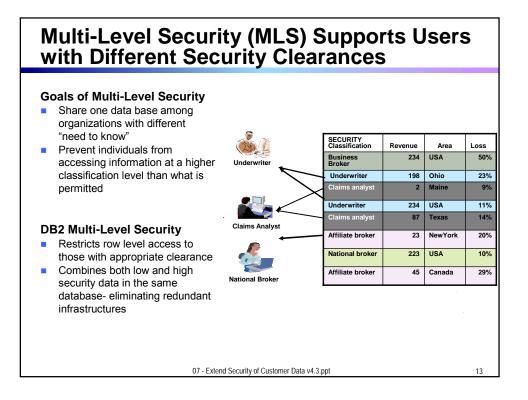












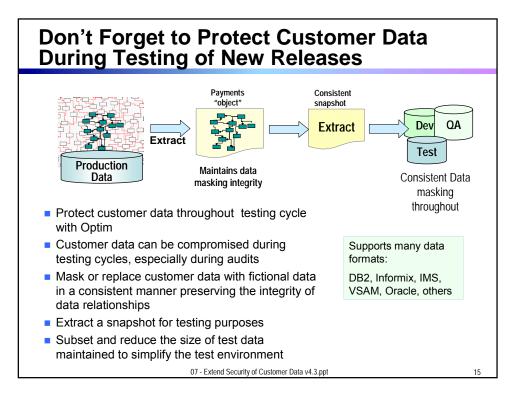
Abraxas Informatik Uses RACF for Secure Outsourcing Services

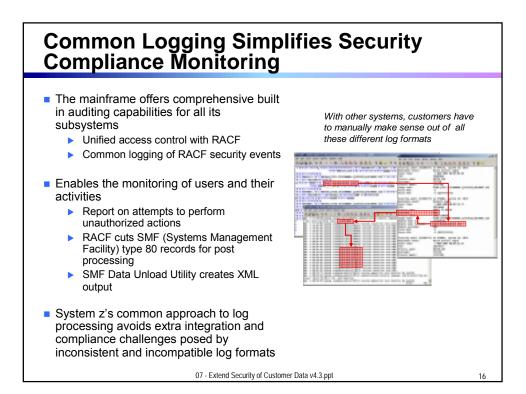
- Abraxas Informatik AG is one of the largest governmental outsourcers in Switzerland
- Challenges Abraxas faced:
 - > High levels of security were needed to handle confidential government information
 - ▶ Both CA ACF2 and Top Secret were installed, requiring staff knowledgeable in both
 - Abraxas needed to simplify their security structure, and reduce security expenses without jeopardizing security
- Solution:
 - Replaced ACF2 and TopSecret with RACF
 - RACF allowed Abraxas to quickly manage resource access and user accountability while reducing costs
- Results:
 - Abraxas now saves 200,000 Swiss francs or \$US 180,042 annually
 - Abraxas is now better positioned to offer excellent security services while keeping its fees competitive

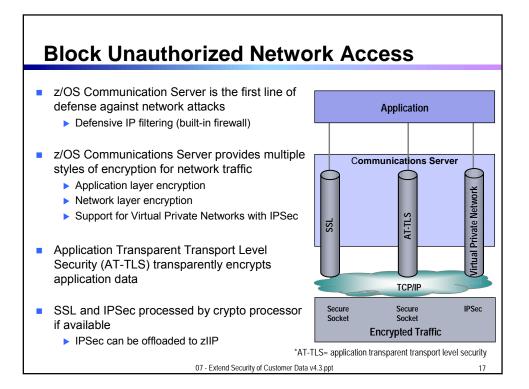
abraxas_Informatik AG

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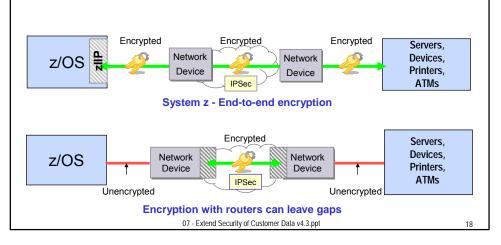






System z Communication Server Encrypts Network Data End-to-End

- Critical for companies that outsource their network yet want greater control over confidential data
- Other router based encryption alternatives expose data in the clear and lack the intrusion detection capabilities of the mainframe.



RACF Security Event Logging

RACF helps you to audit access control and accountability:

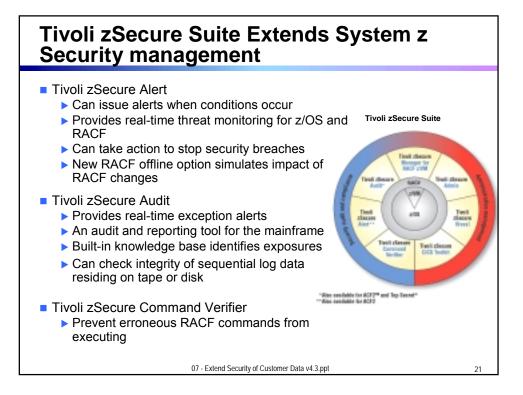
- Started during IPL to prevent vulnerabilities from being introduced
- Audit control functions specify the information RACF should log
- SMF datasets themselves are protected
- RACF SMF data unload utility converts SMF records into a format used by other tools

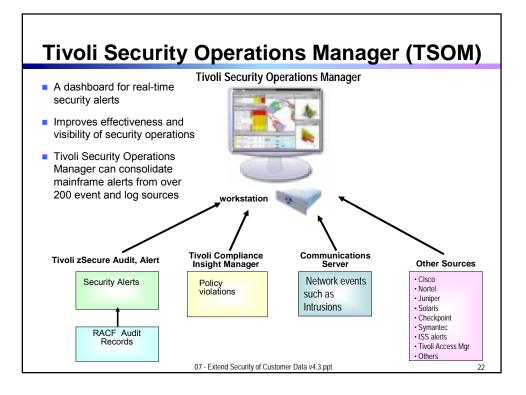
RACF logs many events:

- > All accesses to specific data sets, general resources
- > All accesses to a specified class of resources at a specified access level
- All attempts to access a resource with a security level of confidential
- RACF-related activities of specific users
- Unauthorized attempts to use RACF commands
- All RACF commands issued by users who have SPECIAL authority
- Changes to any RACF profiles

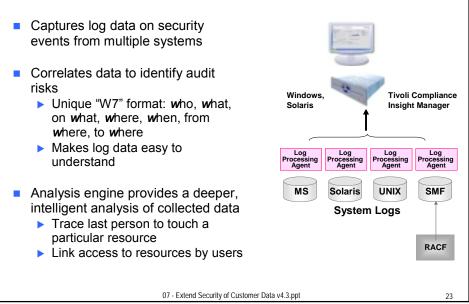
07 - Extend Security of Customer Data v4.3.ppt

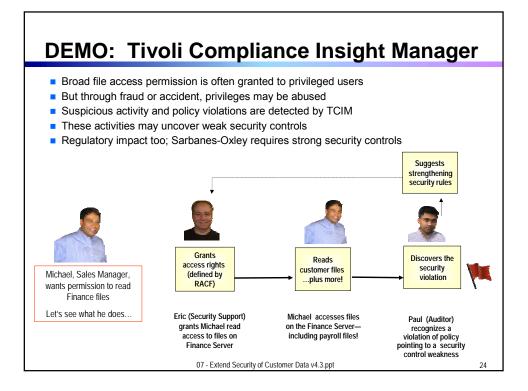
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Tivoli Compliance Insight Manager Provides System Wide Security Management





Mainframe Extension Solution – Data Security Make the Most of What You Already Have!

System z	System z trusted base	Workload isolation and storage protection, common criteria evaluation	
	z/OS	Avoid need for extra virus control mechanisms or firewalls with System z architecture	
	SMF, RACF	Built in logging with SMF records in a consistent format, turn on logging, use RACF to log events	
Data Security	RACF	MLS capabilities of RACF, DB2 provide granular security to support different classification schemes	
	CPACF	Entitled clear key cryptography	
	ЕКМ	Provides the ability to issue, maintain and retrieve cryptographic keys	
Communications	z/OS Communications Server	Provides intrusion defense , policy management as well as secured communications	
	AT -TLS	Communications Server of System z provides easily accessible encrypted communications for applications	
Further extend security			
Encryption	TS 1120 tape drive and C06 CU	Secured tape drive with encryption capabilities built in	
	2 Crypto Express2 Cards	Buy crypto cards for acceleration and co-processing	
	zIIPs (Comm Server + zIIP)	Leverage zIIPs for IPSec	
Compliance And Testing	zSecure	Simplifies administration and provides auditing analysis tools	
	TSOM	Tivoli Security Operations Manager provides advanced network and systems security event management	
	TCIM	Tivoli Compliance Insight Manager provides auditing and compliance reporting	
	Optim	Optim provides testing while protecting data confidentiality	
	07 - Extend Security of Customer Data v4.3.ppt		

